CLAIMS

What is claimed is:

- 1. A mobile unit comprising:
 - a global positioning system (GPS) receiver to receive at least one signal from at least one satellite;
 - a communication transceiver to communicate with a base station; and
 a data bus to carry a signal from said GPS receiver to a memory unit
 and to carry data from said communication transceiver to an audio/video

apparatus.

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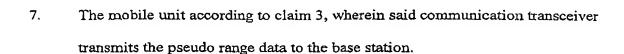
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- 2. The mobile unit according to claim 1, further comprising a controller able to regulate communication between the mobile unit and the base station.
- 3. The mobile unit according to claim 2, further comprising a GPS hardware unit to calculate pseudo-range information from the at least one satellite signal.
- 4. The mobile unit according to claim 3, further comprising a digital signal processor to process the communication signal.
- The mobile unit according to claim 4, wherein the digital signal processor performs pseudo range calculations.
 - 6. The mobile unit according to claim 5, further comprising a processing accelerator to perform part of said pseudo range calculations.

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- 5 8. The mobile unit according to claim 7, wherein said communication transceiver receives position data from the base station.
 - 9. The mobile unit according to claim 1, wherein the communication transceiver does not transmit while the GPS receiver is receiving a signal.
 - 10. The mobile unit according to claim 1, wherein the audio/video apparatus is a speaker or a visual display.
 - 11. A system for determining location comprising:

15 a mobile unit comprising:

- a GPS receiver to receive a signal from a satellite;
- a dipole antenna;
- a communication transceiver to communicate with a base station via said dipole antenna; and
- a data bus to carry a signal from said GPS receiver to a memory unit and to carry data from said communication transceiver to an audio/video apparatus; and

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a time division multiple access base station to communicate with said mobile unit and to calculate a position of said mobile unit based on data received from said mobile unit.

- 5 12. The system according to claim 11, further comprising a controller to regulate communication between the mobile unit and the base station.
 - 13. The system according to claim 12, further comprising a GPS hardware unit to calculate pseudo-range information from the satellite signal.
 - 14. The system according to claim 13, further comprising a digital signal processor to process the communication signal.
 - 15. The system according to claim 14, wherein the digital signal processor performs pseudo range calculations.
 - 16. The system according to claim 15, further comprising a processing accelerator to perform part of said pseudo range calculations.